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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,242	09/30/2003	Un Nyoung Sa	054358-5015	5386
9629	7590	12/22/2004	EXAMINER	
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			NGUYEN, THANH NHAN P	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 12/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/673,242	Applicant(s) SA ET AL.	
	Examiner (Nancy) Thanh-Nhan P Nguyen	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-4 is/are allowed.
- 6) ☒ Claim(s) 5-17 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 5, 7-8, 10-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Jones et al U.S. Patent Application Publication No. 2002/0163616.

Referring to claim 5, Jones et al discloses a liquid crystal display device, comprising a transparent insulating substrate (29); a black matrix (21) formed on the transparent insulating substrate; a color filter layer (23, 25, 27) formed on an upper surface of the black matrix; a polarizing film (17) formed on the color filter layer; and a common electrode (15) formed on the polarizing film, [see fig. 1].

Referring to claim 7, Jones et al discloses the common electrode includes ITO, [see paragraph 0055, lines 15-16].

Claim 8 is met the discussion regarding claim 5 rejection above.

Claim 10 is met the discussion regarding claim 7 rejection above.

Referring to claim 11, Jones et al discloses that forming the color filter layer includes sequentially forming red (23), green (25), and blue (27) color filter layers, [see paragraph 0055, lines 18-19; and fig. 1].

Referring to claim 12, Jones et al discloses a liquid crystal display device, comprising a thin film transistor substrate (3); a color filter substrate (29); a liquid crystal material (11) formed between the thin film transistor substrate and the color filter substrate; a pixel electrode (7) formed on the thin film transistor substrate and a common electrode (15) formed on the color filter substrate, the pixel electrode and the common pixel aligning orientation of liquid crystal molecules of the liquid crystal material; and a polarizing film (17) contacting the common electrode (15) for transmitting light vibrating in one direction, [see fig. 1].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6, 9, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones et al in view of Yi et al U.S. Patent Application Publication No. 2003/0117549.

Referring to claim 6, Jones et al lacks disclosure of a liquid crystal display device further comprising an overcoat film formed between the color filter layer and the polarizing film.

It was well known to have the overcoat on the color filter layer to protect the color layers, as evidenced by Yi et al, [see paragraph 0043, line 2; and fig. 4E]. Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to have an overcoat film formed between the color filter layer and the polarizing film for the benefit of protecting the color layers.

Claim 9 is met the discussion regarding claims 6, and 8 rejection above.

Claim 14 is met the discussion regarding claims 6, and 12 rejection above.

Claim 15 is met the discussion regarding claims 6, and 12 rejection above.

Claim 17 is met the discussion regarding claims 6, and 15 rejection above.

Referring to claim 16, Jones et al lacks disclosure of an upper surface of the overcoat film is flat.

It was well known to have an upper surface of the overcoat film is flat for the benefit of flattening the color filter surface, as evidence by Yi et al, [see fig. 4E]. Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to have an upper surface of the overcoat film is flat for the benefit of flattening the color filter surface.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jones et al in view of Yi et al as discussed above, and further in view of Trapani et al U.S. Patent Application Publication No. 2003/0002154.

Referring to claim 13, Jones et al lacks disclosure of the polarizing film includes polyvinyl alcohol.

Trapani et al discloses the polarizing film includes polyvinyl alcohol for the benefit of preventing degradation of the polarizer in the normal working environment such as in a liquid crystal display device, [see paragraph 0007, lines 12-14]. Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to have the polarizing film includes polyvinyl alcohol for the benefit of preventing degradation of the polarizer in the normal working environment.

Allowable Subject Matter

Claims 1-4 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: None of prior art taught or disclosed a polarizing film formed on the passivation film; and a pixel electrode formed on the polarizing film.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jones et al U.S. Patent Application Publication No. 2002/0163616 discloses a liquid crystal display device comprising an inner polarizer.

Yi et al U.S. Patent Application Publication No. 2003/0117549 discloses a liquid crystal display device comprising an overcoat for the color filter.

Trapani et al U.S. Patent Application Publication No. 2003/0002154 discloses a polarizing film including polyvinyl alcohol.

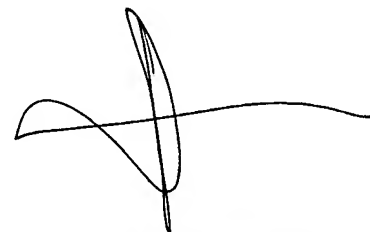
Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

(Nancy) Thanh-Nhan P Nguyen
Examiner
Art Unit 2871

TN

A handwritten signature in black ink, consisting of a stylized, cursive 'K' followed by a horizontal line extending to the right.

KENNETH PARKER
PRIMARY EXAMINER